

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

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“Step Out From the Old to the New”

IS 11345 (1985): Oscillating Shaft Crank for Sewing Machines for Household Purposes [MED 29: Sewing Machines]



“ज्ञान से एक नये भारत का निर्माण”

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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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SPECIFICATION FOR OSCILLATING SHAFT CRANK FOR SEWING MACHINES FOR HOUSEHOLD PURPOSES

1. Scope—Lays down the requirements for oscillating shaft crank for sewing machines for household purposes.

1.1 It does not cover the oscillating shaft crank for sewing machines for industrial and special purposes.

2. Nomenclature — Shall be as shown in Fig. 1.

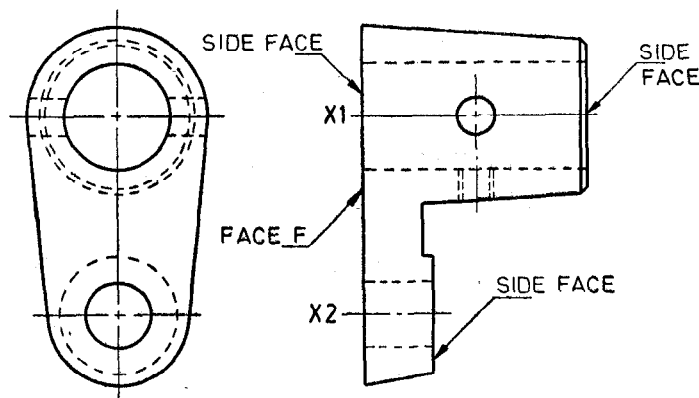
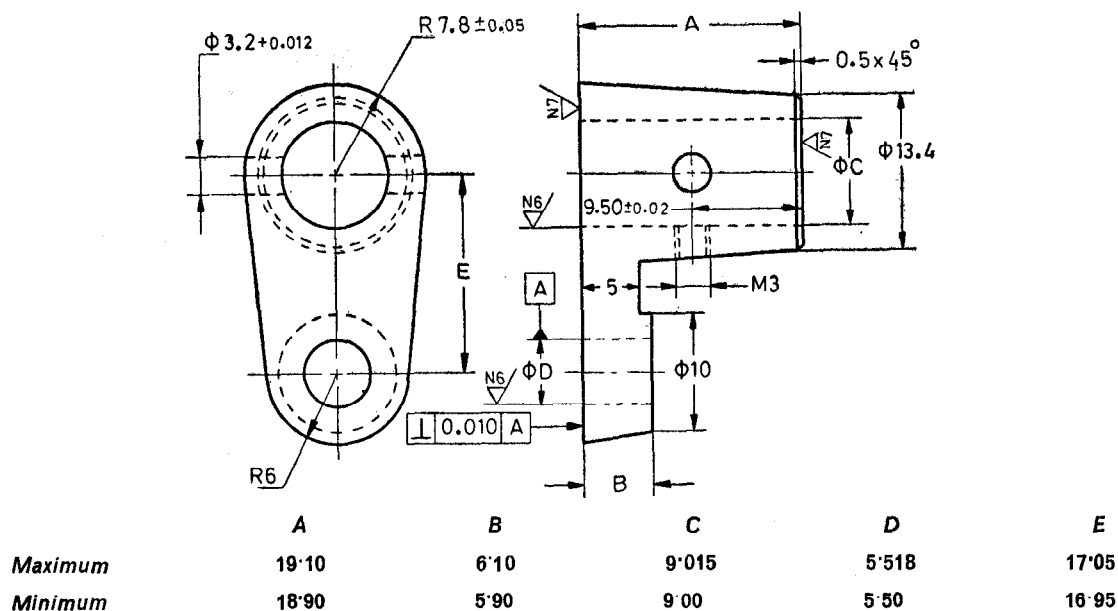


FIG. 1 NOMENCLATURE FOR OSCILLATING SHAFT CRANK

3. Material — The oscillating shaft crank shall be made from cast iron conforming to grade FG 150 of IS : 210-1978 'Grey iron casting (*third revision*)'.

4. Dimensions — Shall be as shown in Fig. 2.



All dimensions in millimetres.

FIG. 2 DIMENSIONS FOR OSCILLATING SHAFT CRANK

5. Tolerances

5.1 The error in parallelism of the axis of the main holes of the oscillating shaft crank shall be within 0.15 per 100 mm.

5.2 The error in parallelism between the axis *X1* and *X2* of the oscillating shaft crank shall be within 0.02 mm.

5.3 The error in perpendicularity of the face '*F*' to the axis *X2* shall be within 0.010 mm.

6. Workmanship and Finish

6.1 The main holes of oscillating shaft crank shall be reamed.

6.2 The side faces of the oscillating shaft crank shall be machined without any tool marks.

6.3 The casting shall be free from defects, such as blow holes, flaws, cracks or burrs and shall be chemically coloured or suitably plated.

7. Marking — The oscillating shaft crank shall be marked with the manufacturer's name or trade-mark, if required.

7.1 ISI Certification Marking — Details available with the Indian Standards Institution.

8. Packing — Each oscillating shaft crank shall be given a suitable antirust coating or wrapped in vapour phase inhibitor paper (commonly known as VPI paper). The wrapped oscillating shaft crank shall be securely packed in accordance with the best prevalent trade practice. Each packing shall bear the manufacturer's name or trade-mark, the type and description of contents.

9. Sampling — Unless otherwise agreed to between the supplier and the purchaser, the sampling plan as given in Appendix A shall be followed. For further information, reference may be made to IS : 2500 (Part 1) - 1973 'Sampling inspection tables: Part 1 Inspection by attributes and by count of defects (first revision)'.

A P P E N D I X A

(Clause 9)

SCALE OF SAMPLING AND CRITERIA FOR CONFORMITY

A-1. Scale of Sampling

A-1.1 Lot — In any consignment all the oscillating shaft crank of same type and manufactured from the same material under essentially similar conditions of manufacture shall be grouped together to constitute a lot.

A-1.2 For ascertaining the conformity of the lot to the requirements of specification, test shall be carried out for each lot separately. The number of oscillating shaft crank to be selected at random for this purpose shall be in accordance with col 1 and 2 of Table 1.

A-1.3 If the oscillating shaft cranks are packed individually, in order to ensure the randomness of selection, IS : 4905-1968 'Methods for random sampling' shall be used.

A-1.4 If the oscillating shaft cranks are packed in different cartons, a suitable number of cartons (not less than 20 percent of the total in the lot subject to minimum of 2) shall be chosen at random. From each of the cartons so chosen, an approximately equal number of oscillating shaft crank shall be picked up from its different parts so as to obtain the required number of oscillating shaft crank specified in col 2 of Table 1.

A-2. Number of Tests and Criteria for Conformity

A-2.1 The oscillating shaft crank selected according to **A-1.2** and **A-1.3** or **A-1.4** shall be examined for dimensions (see 4), tolerances (see 5) and workmanship and finish (see 6). If number of oscillating shaft crank failing to meet one or more of the requirements mentioned above is less than or equal to the permissible number of defectives given in col 3 of Table 1, the lot shall be declared as conforming to the requirements of those characteristics.

TABLE 1 SCALE OF SAMPLING AND PERMISSIBLE NUMBER OF DEFECTIVES*(Clauses A-1.2, A-1.3 and A-1.4)*

Number of Oscillating Shaft Crank <i>N</i>	For Dimensions, Tolerances, Workmanship and Finish	
	Sample Size <i>n</i>	Permissible No. of Defectives*
(1)	(2)	(3)
Up to 15	5	0
16 to 40	8	0
41 to 110	13	0
111 to 300	20	1
301 to 500	32	1
501 to 800	50	2
801 to 1 300	80	3
1 301 and above	125	5

*This ensures that lots containing only 1.5 percent or less defectives will be acceptable most of the time.

EXPLANATORY NOTE

This standard has been prepared to unify and rationalize the type and sizes of sewing machines components for manufacturing in economic quantities.